

**Remarks**

Claims 1-18 are pending in the application and are rejected.

**Claim rejections**

**Section 102**

Claim 1-18 were rejected under 35 USC 102(e) as being anticipated by Favor (US 6,732,236). The Applicant respectfully traverses. Favor cannot support the asserted rejection for at least the reason that Favor does not disclose "if the execution of the first instruction generates a cache miss, associating the first instruction with the cache miss" as recited in independent claim 1. Further, Favor does not disclose "association logic to form an association between a cache miss and an instruction generating the cache miss" as recited in independent claims 5 and 16. Moreover, Favor does not disclose "generating a cache miss in a processor" and "assigning an identifier to the cache miss and writing the identifier in a field of a load instruction generating the cache miss," as recited in independent claim 10. Favor is further silent as to "in a processor, enqueueing a plurality of instructions needing re-execution due to respective cache misses in a re-execution queue" and "associating each instruction in the queue with a respective corresponding cache miss," as recited in independent claim 13.

Instead, Favor relates to a queue of access requests to a cache. The access requests are not instructions as in the present invention as claimed; they are requests for data from specific cache lines. See Favor at, e.g., col. 3, lines 49-51. Thus, in Favor associations are never formed between instructions and cache misses generated by the instructions, as required by the present claims. In particular, in Favor there is no association formed upon the occurrence of a cache miss. Rather, it is determined whether a cache miss has occurred or not based on a decoded access request that includes an address of requested data. See Favor at col. 2, lines 59-62. In other words, in Favor an association is not formed between an access request and a cache miss; instead, the access request already "knows" what cache data it wants, and the miss occurs because the access request cannot find it. See Favor at col. 3, lines 22-43.

In view of the foregoing, independent claims 1, 5, 10, 13 and 16 are allowable over Favor, as are the dependent claims for at least the reason that they depend on the

independent claims. Withdrawal of the rejection of claims 1-18 as being anticipated by Favor is therefore respectfully requested.

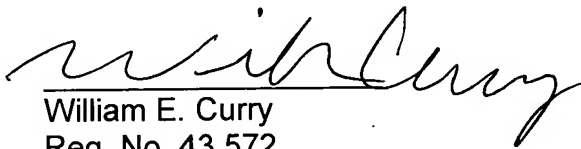
Conclusion

In light of the above discussion, Applicant respectfully submits that the present application is in all aspects in allowable condition, and earnestly solicits favorable reconsideration and early issuance of a Notice of Allowance.

The Examiner is invited to contact the undersigned at (202) 220-4323 to discuss any matter concerning this application. The Office is authorized to charge any fees related to this communication to Deposit Account No. 11-0600.

Respectfully submitted,

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